

CLAIMS

1. Planetary transmission (1) having one sun gear (3) actuatable by an input shaft (2) one ring gear (15) connected with a housing (14) one group of planetary gears (22) and one group of step planets (4) with large and small step gears (5, 6)

– wherein said planetary gears (22) and said step planets (4) are supported in a common planet carrier and engaged both with each other the same as with said sun gear (3) and said ring gear (15),

– wherein said planet carrier has one output flange supported opposite said housing (14) via one cross roller bearing (12) with preferably split inner rings (13, 13a, 13b) and designed in at least two parts (8, 9).

2. Planetary transmission according to claim 1, characterized in that said planet carrier has at least one parting line (10) extending in a radial plane.

3. Planetary transmission according to claim 2, characterized in that said parting line (10) is situated in the area of the axial extension of said inner ring (13) or said split inner ring (13a, 13b).

4. Planetary transmission according to claim 1, 2 or 3, characterized in that said planet carrier is composed of one first and one second part (8, 9) which are centered and axially braced relative to each other.

5. Planetary transmission according to claim 4, characterized in that said parts (8, 9) are braced with each other via screw bolts (11).

6. Planetary transmission according to claim 4 or 5, characterized in that said parts (8, 9) are centered via fitting sleeves (12).

7. Planetary transmission according to claim 6, characterized in that said fitting sleeves (12) are inserted in bearing holes for the step planets (4, 7).

8. Planetary transmission according to claim 4, 5 6 or 7, characterized in that said first and said second part (8, 9) have each one shoulder (17, 16) respectively for supporting said inner ring (13) and said split inner ring (13a, 13b) and for axial fixing of said cross roller bearing (12).

9. Planetary transmission according to any one of claims 4 to 8, characterized in that said first and said second part (8, 9) form in the area of said parting line (10) a common bearing seat (8a, 9a) for said inner ring (13) or said split inner ring (13a, 13b).

10. Planetary transmission according to any one of claims 4 to 8, characterized in that only one of said two parts (8, 9) has a bearing seat respectively for said inner ring (13) and said split inner ring (13a, 13b).

11. Planetary transmission according to any one of claims 4 to 10, characterized in that said first part (8) is designed as carrier of said planetary gears (22) by means of planetary bolts (23) and said second part (9) is designed as output part with one output flange (28).